

Section 10–3 Regulating the Cell Cycle

(pages 250–252)



Key Concepts

- How is the cell cycle regulated?
- How are cancer cells different from other cells?

Controls on Cell Division (page 250)

1. What happens to the cells at the edges of an injury when a cut in the skin or a break in a bone occurs? _____
2. What happens to the rapidly dividing cells when the healing process nears completion? _____

Cell Cycle Regulators (page 251)

3. What do cyclins regulate? _____
4. What are internal regulators? _____
5. Circle the letter of each sentence that is true about external regulators.
 - a. They direct cells to speed up or slow down the cell cycle.
 - b. They prevent the cell from entering anaphase until all its chromosomes are attached to the mitotic spindle.
 - c. They include growth factors.
 - d. They prevent excessive cell growth and keep the tissues of the body from disrupting one another.

Uncontrolled Cell Growth (page 252)

6. What is cancer? _____
7. Complete the flowchart about cancer.

